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DWARF FRUIT TREE

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U. S. Department of Agriculture

Fall, 1960

& Spring, 1961

LIST



Grown and Sold by

Lorne J. Doud

Orchardist & Nurseryman

"QUALITY - - PLUS" APPLES

DWARF APPLE TREES

Phone: Roann TE 5-5751 Route 1
Wabash, Indiana

plant in my own orchard since at that time trees of this type were not available from nurseries. In the process of producing trees for my own use, I built up a supply of propagating material, and soon found myself in the nursery business. During the ensuing 20 years, we have dropped Malling I and XIII and added Malling II and VII and the new Malling-Merton series in our search for smaller, earlier-bearing trees that are adaptable over the wide range of soil types and climate found in the apple-growing areas of the United States.

As a result of experiences gained early in this period, I was probably the first commercial nurseryman to adopt the practice of budding high on the stock to allow deep planting in the orchard and thereby encourage good anchorage. During these years, I have shipped dwarf and semi-dwarf trees into every apple-growing state in the country, and established a reputation for trueness-to-name, high quality, and dependability. Since our nursery business consists exclusively of dwarf and semi-dwarf apple and pear, we are able to give the complicated process of producing these trees the detailed attention that is required for the type of tree that the fruit-grower can depend upon.

Our nurseries and orchards are located 2 miles south and 1 mile west of Roann on the Wabash-Miami County line. We have around 1,500 dwarf and semi-dwarf trees in our orchard ranging in age from 1 to 14 years. In addition, we are producing around 40,000 nursery trees each year. Visitors are always welcome and will be shown our plantings whenever they care to call.

CUSTOM BUDDING



Our system of high budding allows deep planting in the orchard and insures good anchorage.

We are prepared to produce trees on any of our rootstocks using your buds. We have used this plan to produce old and rare varieties as well as new and untested varieties that ordinarily are not available on dwarfing or semi-dwarfing stocks.

By this method you can obtain trees of a variety or strain that you know perform well under your conditions. This is particularly important with the confusion arising from the large number of new Delicious strains, for instance, that are being introduced every year.

In addition, you are able to save money because our new contract prices are lower. Under this plan we bud your trees in August, 1960 for delivery Fall, 1961 or Spring, 1962.

PRICES FOR CONTRACT BUDDING

	1-5 of 1 Var.	6-25 of 1 Var.	26-99 of 1 Var.	100 up of 1 Var.
Standard stock	2.25	1.75	1.25	1.00
Malling stocks	2.50	2.00	1.50	1.25
Malling Merton st'ks	2.75	2.25	1.75	1.50

[Numbers refer to trees of each variety or strain]

VARIETY DESCRIPTIONS

(in order of ripening)

LODI—Transparent type; because of its larger size, can usually be picked ahead of Transparent.

WELLINGTON—Introduced by N. Y. Exp: Station in 1955. Large, red-striped apple, maturing all its fruit at one time - about July 20 in north-central Indiana.

FENTON—Named after Harold Fenton, LaPorte, Indiana. It has aroused widespread interest during the past 5 years because of its early season - Aug. 15, its good red color, and its keeping quality which, unlike that of most summer apples extends several weeks. It is now thought by many nurserymen and horticulturalists to be similar to or synonymous with Beacon.

REDSUMBO—Bud-sport of Summer Rambo discovered by E. A. Doud at Cory, Indiana. Develops a solid-red blush under favorable coloring conditions. Slightly smaller, slightly later, and somewhat firmer than Summer Rambo.

BLAZE—Jonathan-type, ripening 3½ weeks ahead of Jonathan, with a flavor somewhat less tart. Vigorous, productive trees. This new variety was developed at the University of Illinois and released in 1958. Suggested for

trial planting - - "to extend the fresh market season of Jonathan-type apples in commercial apple regions with a climate similar to that in Southern Illinois".

BARRY—Developed by crossing McIntosh and Cox Orange. Latest introduction from the N. Y. Exp. Station. Fall variety, - reaching picking maturity about two weeks before McIntosh. Size-medium to large; color-solid, dark red blush; quality-good to very good.

FRANKLIN—Developed at the Ohio Exp. Station by crossing McIntosh and Delicious. Very high-quality, well-colored, tender, with McIntosh "bloom", ripening about with Jonathan.

CORTLAND—One of the first apples resulting from the N. Y. State breeding program. McIntosh type ripening somewhat later. The ripe fruits can be picked over a long period and used mainly for local sales. Extends the McIntosh season.

JONADEL—From the Iowa breeding program by crossing Jonathan and Delicious. Fruit similar in shape to Jonathan but larger. Skin smooth and firm; color cherry red to dark red. Crisp and juicy with milder flavor than Jonathan. Stores well from Jan. to March and does not get mealy.

MELROSE—Developed by Ohio Exp. Station by crossing Jonathan and Delicious. High-quality dessert apple that will keep in common storage until late spring.

MONROE—From N. Y. breeding program by crossing Jonathan and Rome Beauty. Good-quality winter apple with color similar to Jonathan. In N. Y. State this variety shows promise as replacement for Baldwin.

CRANDALL—Developed at Illinois Exp. Station by crossing Jonathan and Rome Beauty. Medium size, medium red with fine-grained juicy flesh rated good for both dessert and culinary purposes.

IDARED—Rapidly becoming a commercial apple in the middle-west because of its late-keeping qualities combined with its Jonathan type. Will keep in common storage until late spring. Developed at the Idaho Exp. Station by crossing Jonathan and Wagener.

RUBY—Product of crossing Gallia Beauty and Starking in the Ohio Exp. Station breeding program. Large, fairly attractive fruit that keeps particularly well.

We have a collection of around 150 varieties and strains of apples including the old, new and unusual. In some instances these are 1 year trees on MIX. In most cases we can furnish scion wood or bud these on contract. This list of varieties and strains will be furnished free on request.

"In the Orchard Performance Counts!"



Mallings II

D. R. Delicious — Mallings II
Planted 1951
Tree Size — 15'x15'
Bore full crop in 1957
Ave. Yield, 1959 — 7 bu. per tree

MALLINGS II Larger semi-dwarf. 20'x30' Planting Distance.

This stock is considered to be good for weaker-growing or earlier bearing varieties such as Fenton, Golden Delicious, Idared, Jonathan, and strains of Rome. It requires deep, well-drained, light, cool soils, and will not tolerate wet feet or poor aeration from other causes. High soil temperatures discourage its best growth, and although this may be influenced by mulch, good performance of this stock is limited mostly to favorable locations in northern areas. Anchorage of Mallings II is generally good and it practically never requires staking.

Evarts Red Delicious [1 & 2 yr.]
D. R. Delicious [2 yr.]
Fenton [1 & 2 yr.]
Golden Delicious [1 & 2 yr.]
Idared [1 & 2 yr.]
D. R. Jonathan [1 & 2 yr.]
D. R. McIntosh [2 yr.]
Rogers McIntosh [2 yr.]
Red Rome [1 yr.]



Mallings VII

Golden Delicious — Mallings VII
Planted 1951. Ave. tree size 12'x12'
Bore crops since 1955

MALLINGS VII Smaller semi-dwarf. 15'x25' Planting Distance.

This stock produces a "peach-tree-sized" apple tree that is the most widely adapted to soils, sites, and climate of any of the dwarfing stocks that we have grown. It encourages early bearing and the average variety on this stock can be depended upon to pay its way in the orchard by the 5th or 6th year. In northern climates, weaker-growing varieties such as Jonathan may be smaller than desired; however, nearer the Ohio River, this combination has been a stronger growing, desirable tree. Anchorage is ordinarily good, and instances where staking is required are the exception rather than the rule. This is the stock that we can recommend for most semi-dwarf plantings.

Barry [1 yr.]
Blaze [1 yr.]
Cortland [2 yr.]
Crandall [1 yr.]
Evarts Red Delicious [1 & 2 yr.]
D. R. Delicious [1 & 2 yr.]
Franklin [1 yr.]
G. Delic [1 & 2 yr.]
Idared [2 yr.]
Jonadel [1 yr.]
D. R. Jonathan [1 & 2 yr.]
Lodi [1 yr.]
D. R. McIntosh [2 yr.]
Rogers McIntosh [1 yr.]
Melrose [1 yr.]
Monroe [1 yr.]
N. Spy [1 & 2 yr.]
Redhook [2 yr.]
Redsumbo [1 yr.]
Ruby [1 & 2 yr.]
Wellington [1 yr.]



Mallings IX

Redsumbo — Mallings IX
Planted 1953
10 feet apart in rows
Rows 14 feet apart
Trained on 2 wire trellis

MALLINGS IX True Dwarf. 8'x12' Planting Distance.

Mallings IX produces the smallest tree in the Mallings series of rootstocks. While they have a weak, brittle root and require staking or trellising for support, they are being used for a wide range of purposes. Commercial fruit growers are training them to trellises similar to those used for grapes. They have the advantage of producing the earliest bearing and also the earliest maturity of fruit of any of the dwarfing stocks. We saw a 20-year-old planting at the Vineland, Ontario Experiment Station in 1958 that produced the highest per-acre yield of any stock including standard. This stock also is used by back-yard gardeners, and the tree is often trained to any number of espalier types similar to those used for several centuries in Europe. This stock is happiest in fertile, well-drained, cool soil and shows greatest response to mulching, fertilization, and irrigation.

D. R. Delicious [1 & 2 yr.]
Golden Delicious [1 & 2 yr.]
Grimes [2 yr.]
D. R. Jonathan [1 & 2 yr.]
D. R. McIntosh [2 yr.]
Rogers McIntosh [1 yr.]
Northern Spy [1 yr.]
Redsumbo [1 & 2 yr.]
D. R. Stayman [2 yr.]
Transparent [1 yr.]

PRICES FOR 1-YEAR 9/16 (5 to 7 ft.) TREES

	1-9 each	10-25 each	25 & over each
Mallings II, VII, IX, & Dwarf Pear	2.00	1.75	1.50
Mallings XII, XVI, & Standard	1.50	1.25	1.00

For 1 year 7/16" Trees (3 to 4 ft.) subtract 25c

For 2 year 11/16" Branched Trees add 25c

These prices are f.o.b. our nursery 2 miles south and 1 mile west of Roann, Indiana. Baling and packing for shipment is charged extra at cost.

MALLING MERTON STOCKS

This is a new series of rootstocks introduced into the United States around 1950. They were developed in England by crossing Northern Spy with certain of the Mallings stocks, mainly to obtain resistance to Woolly aphis. Of the 15 seedlings numbered from MM 101 to MM 115, four are considered best for testing at the present time. In increasing order of size, these are as follows:

MM 106 Slightly smaller than Mallings VII
MM 104 Slightly larger than Mallings VII
MM 111 About the size of Mallings II
MM 109 Slightly larger than Mallings II

These rootstocks combine hardiness and vigorous roots with woolly aphis resistance. However, little is known regarding their performance in American soils and climate. They should be planted by growers for testing purposes only and to gain a comparison with the Mallings stocks used.



1,000 Mallings Mertons grown by Lorne J. Doud
Planted by Dixie Orchard Co., Spring, 1958

Golden Delicious/MM106, 109, 111
Red Rome/MM109, 111
D. R. Jonathan/MM111
D. R. Delicious/MM106, 111

STANDARD SIZE TREES

MALLING XII Standard Size

This stock produces a vigorous-growing tree that reaches standard size at maturity. These trees have a high degree of uniformity which is the main advantage over seedling stock. Our experience has shown Mallings XII to be an especially good stock for Transparent, producing a wide-angled, vigorous, early-bearing tree.

MALLING XVI Standard-size.

This stock produces a strong-rooted, vigorous-growing standard size tree with possibly a higher degree of uniformity than seedling stock. With some varieties, it may produce somewhat earlier bearing. This stock has performed well for us with the varieties that we list.

D. R. Delicious [1 yr.]
Golden Delicious [1 yr.]
D. R. Jonathan [1 yr.]
Red Rome [1 yr.]

STANDARD SEEDLING STOCK

Blaze [1 yr.]
D. R. Delicious [1 yr.]
Golden Delicious [1 yr.]
D. R. Jonathan [1 yr.]
Red Rome [1 yr.]

DWARF PEAR TREES

ANGERS QUINCE, TYPE "A"
10' x 15' Planting Distance.

Like the Mallings apple rootstocks, this dwarfing stock for pears came from the East Mallings Research Station in Kent, England. It produces a strong vigorous root with good anchorage. It is incompatible with Bartlett but this is overcome by using a section of "Old Home" pear stock between the quince root and pear variety top. Trees on this stock are intermediate in size between apples on Mallings IX and VII.

Bartlett/Old Home [1 yr.]
Maxine/Old Home [1 yr.]
Maxine [2 yr.]

*Qall, 1960 & Spring, 1961 Descriptive Price List
Dwarf and Semi-Dwarf Apple Trees*

*from: Lorne J. Dowd
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Wabash, Indiana*

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